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(54) GRANULAR NONIONIC DETERGENT COMPOSITION AND ITS PRODUCTION

(57) Abstract:

PROBLEM TO BE SOLVED: To produce a granular nonionic detergent compsn. which is excellent in detergency against staining due to pigment deposition by incorporating a nonionic surfactant, an amphoteric surfactant, a polycarboxylate, and a layered silicate into the same.

SOLUTION: This compsn. contains (A) a nonionic surfactant (e.g. a polyoxyethylene alkyl (alkenyl) ether or a fatty acid methyl ester ethoxylate prepd. by the addition reaction of ethylene oxide to a fatty acid methyl ester) pref. in an amt. of 15-50 wt.% and pref. having an m.p. of 40°C or lower and an HLB of 9-16, (B) an amphoteric surfactant (e.g. lauramidopropylbetine) pref. in an amt. of 0.1-5 wt.% and selected from among betaine compds., imidazoline

derivs., and phosphate-type ones, (C) a polycarboxylate [e.g. poly(sidium acrylate)] pref. in an amt. of 1-15 wt.% and pref. having an average mol.wt. of 5,000-20,000, and (D) a layered silicate pref. in an amt. of 1-20 wt.% of the nonionic surfactant and pref. having a particle size of 10-50

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